



DoD in California: Alternative Energy & the Readiness and Environmental Protection Initiative (RETI)



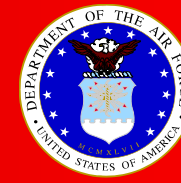
California Biodiversity Council
19 March 09





Energy Policy

-- A National Priority --



Current Guidance

Federal Laws and Statutes

- Energy Independence and Security Act of 2007
- Energy Policy Act of 2005

Presidential Executive Orders

- Strengthening Federal Environmental, Energy, and Transportation Management, EO 13423 (JAN 2007)
- Federal Workforce Transportation, EO 13150 (OCT 2000)
- Federal Alternative Fueled Vehicle Leadership, EO 13031 (DEC 1996)

Think Tanks

Defense Science Board

"More fight, less fuel..."

Institute for 21st Century Energy, GEN James Jones

"Energy is a vital national security issue...An affordable, diverse and secure energy supply is fundamental to our security."

Center for Strategic & International Studies

"Obama has an opportunity to "reset" the energy system."

Union of Concerned Scientists

"Diversify energy sources, that do not deplete natural resources..."

Millennium Institute

Energy interdependencies with society, environment, and economy

Environmental and Energy Study Institute

Energy efficiency and renewable energy focus

- Sponsored: 11th Annual Congressional Forum

CNO Exec. Panel

"Navy not taking initiative, not focused. Contrasts sharply with industry which has gone to general quarters."

Congress

Senate Renewables and Energy Efficiency Caucus -

Senators:

Byron Dorgan (D-ND)

Mike Crapo (R-ID)

Joe Lieberman (I-CT)

- Senate has passed a renewable electricity standard bill three times since 2002

House Committee on Energy and Commerce -

Subcommittee on Energy and Air Quality

Chaired by Hon Rick Boucher (D-VA) carbon capture and storage (CCS) technologies.

Full House of Representatives has never seen floor action on renewable energy

American Recovery and Reinvestment Act of 2009

New Administration



"... harness our own renewable forms of energy so that oil can never be used

as a weapon against America."

- Invest \$150 B over 10 years to catalyze private efforts to build a clean energy future, create 5 million new jobs
- Save more oil than we currently import from the Middle East/ Venezuela in 10 years
- Put 1 million Plug-In Hybrid cars (150 miles per gallon) -- on the road by 2015
- 10 percent of our electricity from renewable sources by 2012, 25 percent by 2025.
- Cap-and-trade program to reduce greenhouse gas emissions 80 percent by 2050.





Facilities Energy & Water -- Program Framework --



KEY PERFORMANCE MANDATES

1. **Energy Management** : Reduce Energy Intensity by 3% annually (30% by 2015) relative to 2003 baseline
2. **Water Management**: Reduce Water Consumption Intensity by 2% annually (16% by 2015) relative to 2007 baseline
3. **Renewable Energy**: Of the total amount of electricity consumed, 25% will be generated from renewable sources by FY 2025

Intensity = Consumption per square foot

TOP PROGRAM REQUIREMENTS

- **Achieve LEED Silver Rating performance for new & major renovation building construction**
- **Procure ENERGY STAR and DOE FEMP-designated low energy products**
- **Designate Energy Managers at each installation**
- **Perform energy audits to identify cost effective energy upgrades**
- **Verify building energy systems are installed, calibrated, and operating as intended**
- **Focus on renewable energy production (solar, wind, bio-mass & geothermal)**



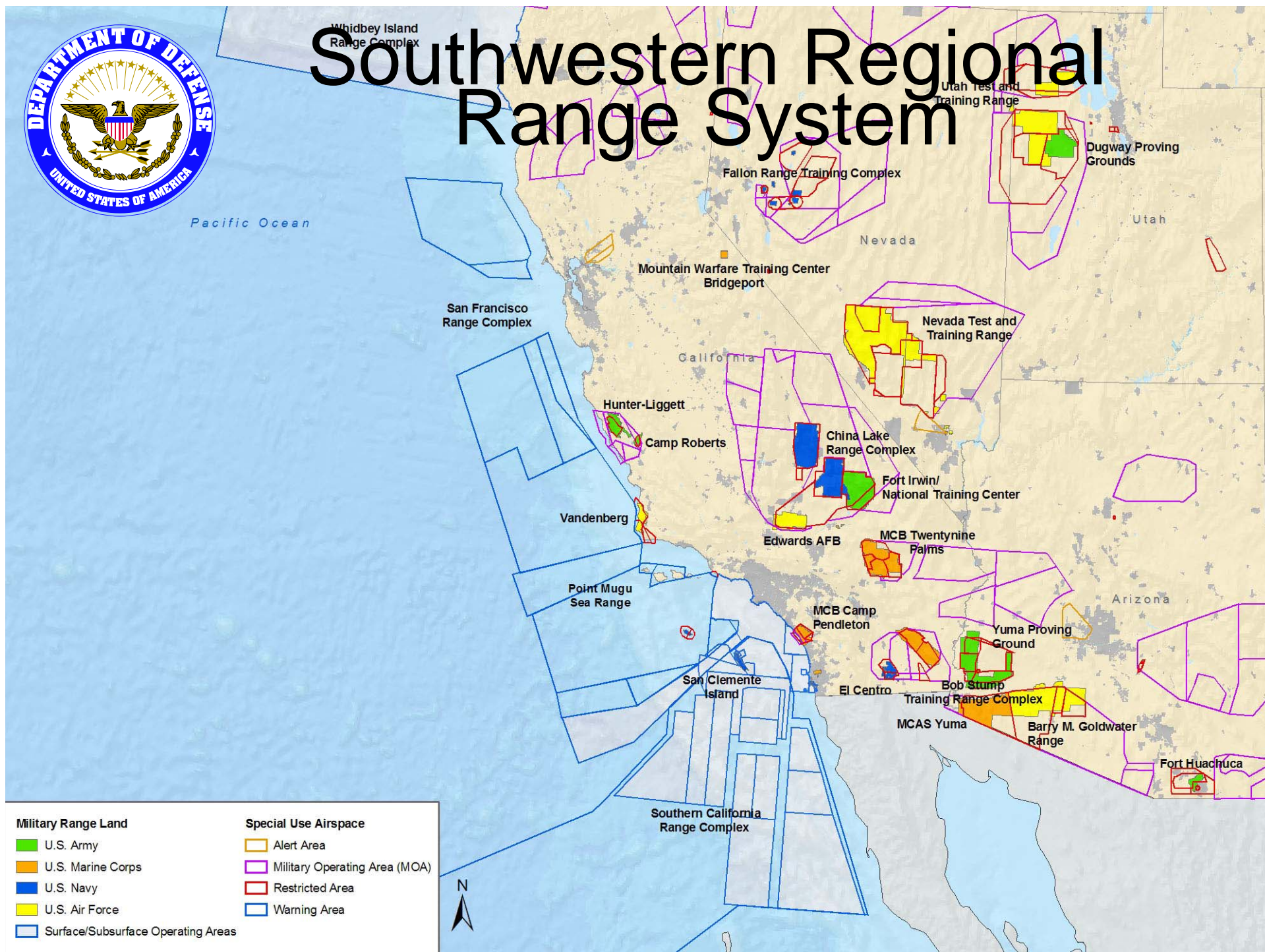
DoD Energy Initiatives

- DoD/DoE Net Zero Installation Initiative
- Large Scale Renewable Projects (PPA, PPV, EUL)
- Wind Turbine (UESC)
- Biomass Steam Plants (ESCP)
- Geothermal Studies
- Wind Assessments
- Cogeneration Plants (ESPC)
- Landfill Gas (ESPC)
- Solar Photovoltaic Panels
- Green Base Initiative
- Strategy Energy Studies
- Facilities Metering
- LEED Silver Facilities





Southwestern Regional Range System





We Must *“Train As We Fight”*

EX DESERT SCIMITAR 2001, 2002: 1st Marine Division crossing the Colorado River



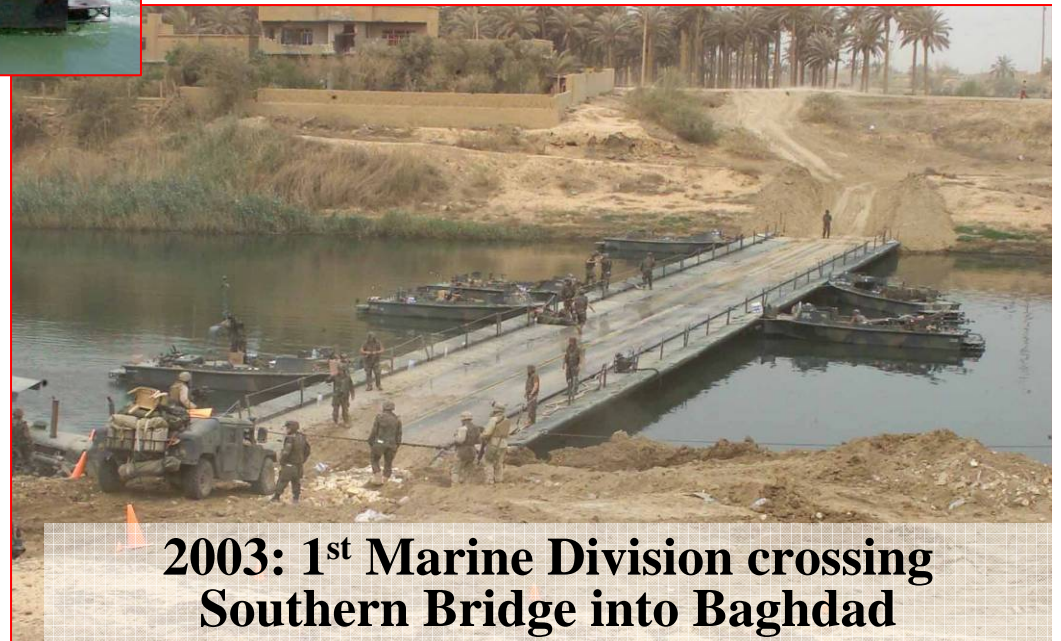
200 Miles across CA to AZ

592 Vehicles

2700 Marines

450' expeditionary bridging

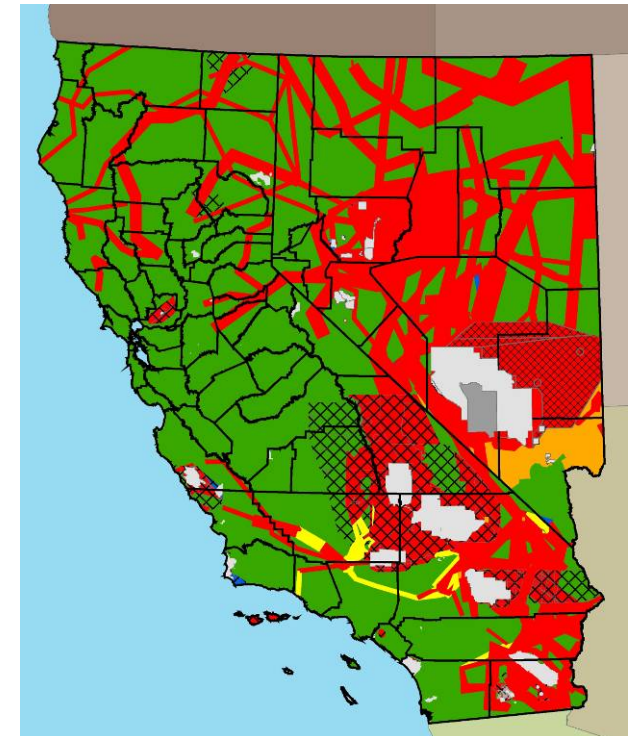
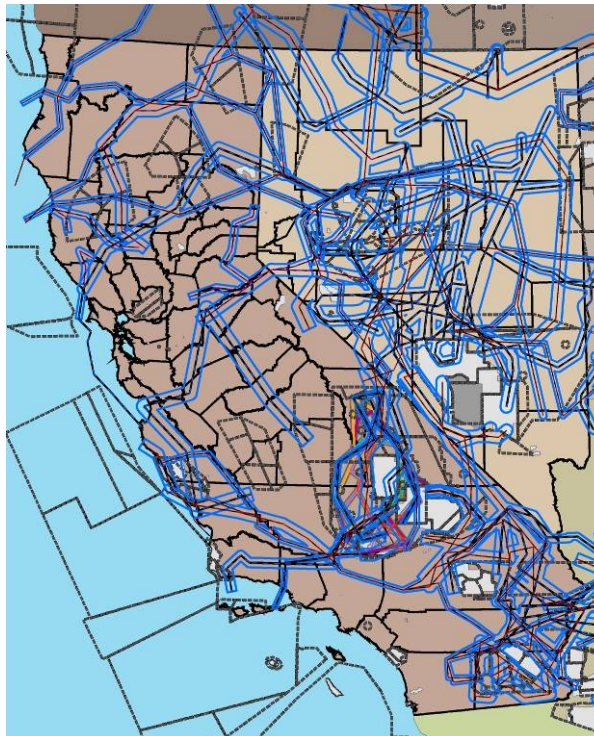
DoD does not possess the range of conditions needed to fully rehearse current operational plans unless complemented by public lands



2003: 1st Marine Division crossing Southern Bridge into Baghdad



Working with Wind/Energy Industry: **Red-Yellow-Green** or Stoplight Concept





DoD Regional Wind Work Group

- **Established 2003 to address Kern County challenges**
- **Expanded to California & Nevada**
- **Recognized as model for other regions**
- **Lessons Learned**
 - **Early engagement with project proponents & industry associations**
 - **Robust GIS**
 - **Regional engagement (joint DoD) with land use decision makers**
 - **Dedicated DoD lead**





Federal Aviation Administration

Bringing Safety to America's Skies

Proponents will click on the DoD
Screening Tool

DEMO

Obstruction Evaluation

Home

FAA OE/AAA Offices

View Determined Cases

View Proposed Cases

View Supplemental
Notices (Form 7460-2)

View Circularized Cases

Search Archives

Circle Search for Cases

Circle Search for Airports

Discretionary Review FAQs

Notice Criteria Tool

DoD Preliminary
Screening Tool

Distance Calculation Tool

OE/AAA Account

Login

New User Registration

Information Resources

FAA Acronyms

Forms

Obstruction Evaluation / Airport Airspace Analysis (OE/AAA)

faa.gov Tools: [Print this](#)

Due to resource limitations, the FAA can no longer support feasibility studies for proposed Wind Turbine projects. The FAA must have all Wind Turbine configurations at the time of your filing to accurately evaluate the cumulative effect of the entire project as it pertains to the national airspace system.

In administering Title 14 of the Code of Federal Regulations CFR Part 77, the prime objectives of the FAA are to promote air safety and the efficient use of the navigable airspace. To accomplish this mission, aeronautical studies are conducted based on information provided by proponents on an FAA Form 7460-1 Notice of Proposed Construction or Alteration.

[Advisory Circular 70/7460-1K](#), Obstruction Marking and Lighting, describes the standards for marking and lighting structures such as buildings, chimneys, antenna towers, cooling towers, storage tanks, supporting structures of overhead wires, etc.



OE/AAA Filing Process

If your organization is planning to sponsor any construction or alterations which may affect navigable airspace, you must file a **Notice of Proposed Construction or Alteration (Form 7460-1)** with the FAA.

CLICK HERE
for Instructions on how to E-file
your proposal with the FAA



If construction or alteration IS NOT LOCATED on an airport:

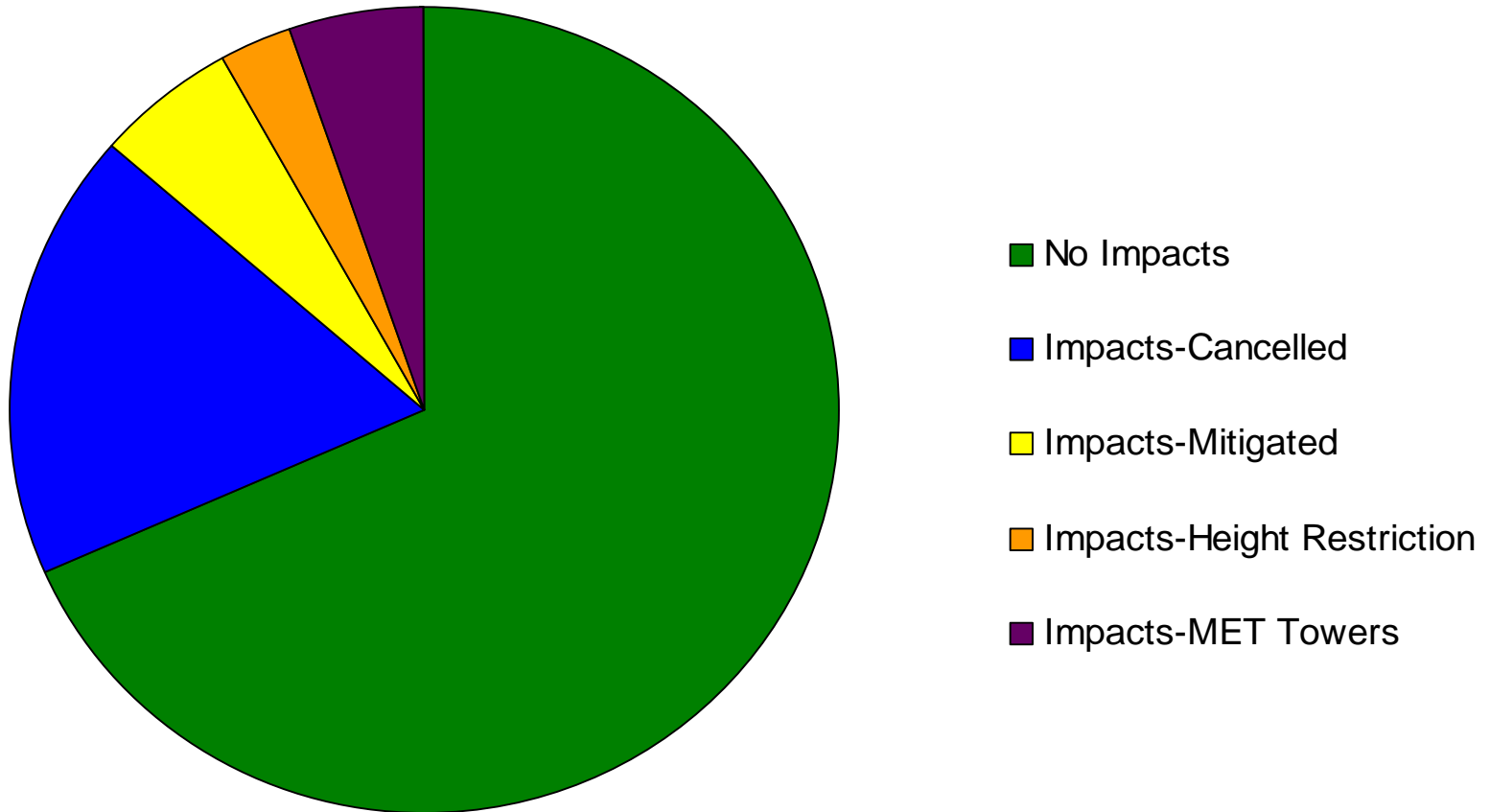
You may file forms 7460-1 and 7460-2 electronically via this website - [New User Registration](#).

If construction or alteration IS LOCATED on an airport:

You may file forms 7460-1 electronically via this website - [New User Registration](#).



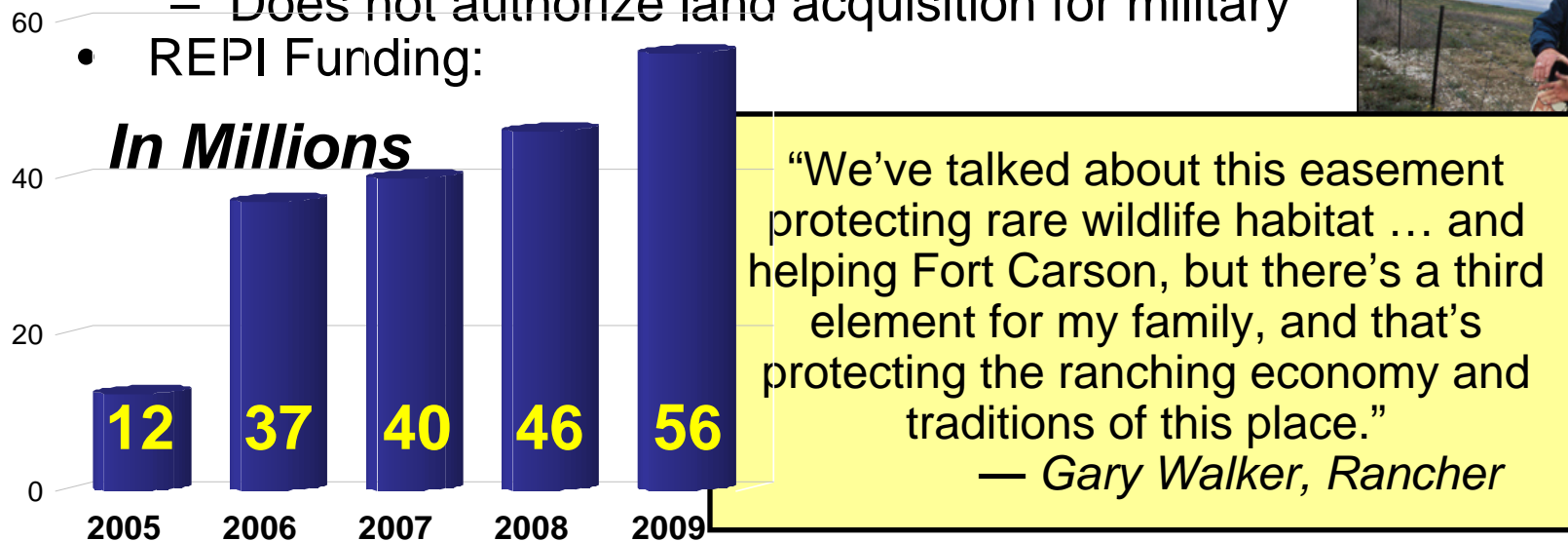
DoD Regional Wind Work Group: Wind Turbine Siting Results





Readiness and Environmental Protection Initiative (REPI)

- Authority (10 USC 2684a) for compatible land use partnering provided by Congress.
- Authorizes military departments to sign agreements with state or local governments, or private conservation groups to:
 - Limit incompatible development of property near military bases
 - Preserve habitat to relieve environmental restrictions on military readiness activities
 - Does not authorize land acquisition for military
- REPI Funding:



1/09

Installations in 22 states already being protected

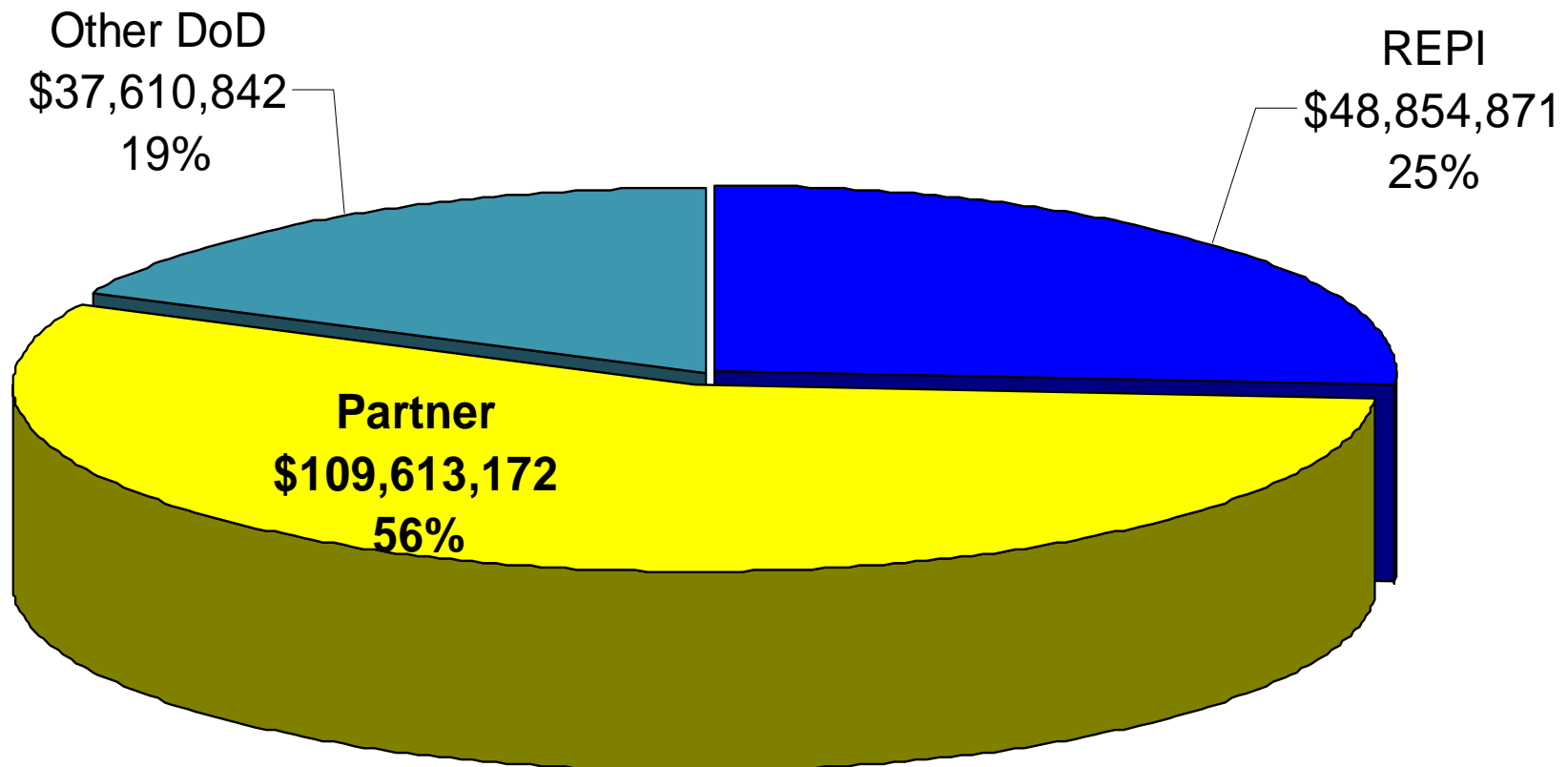


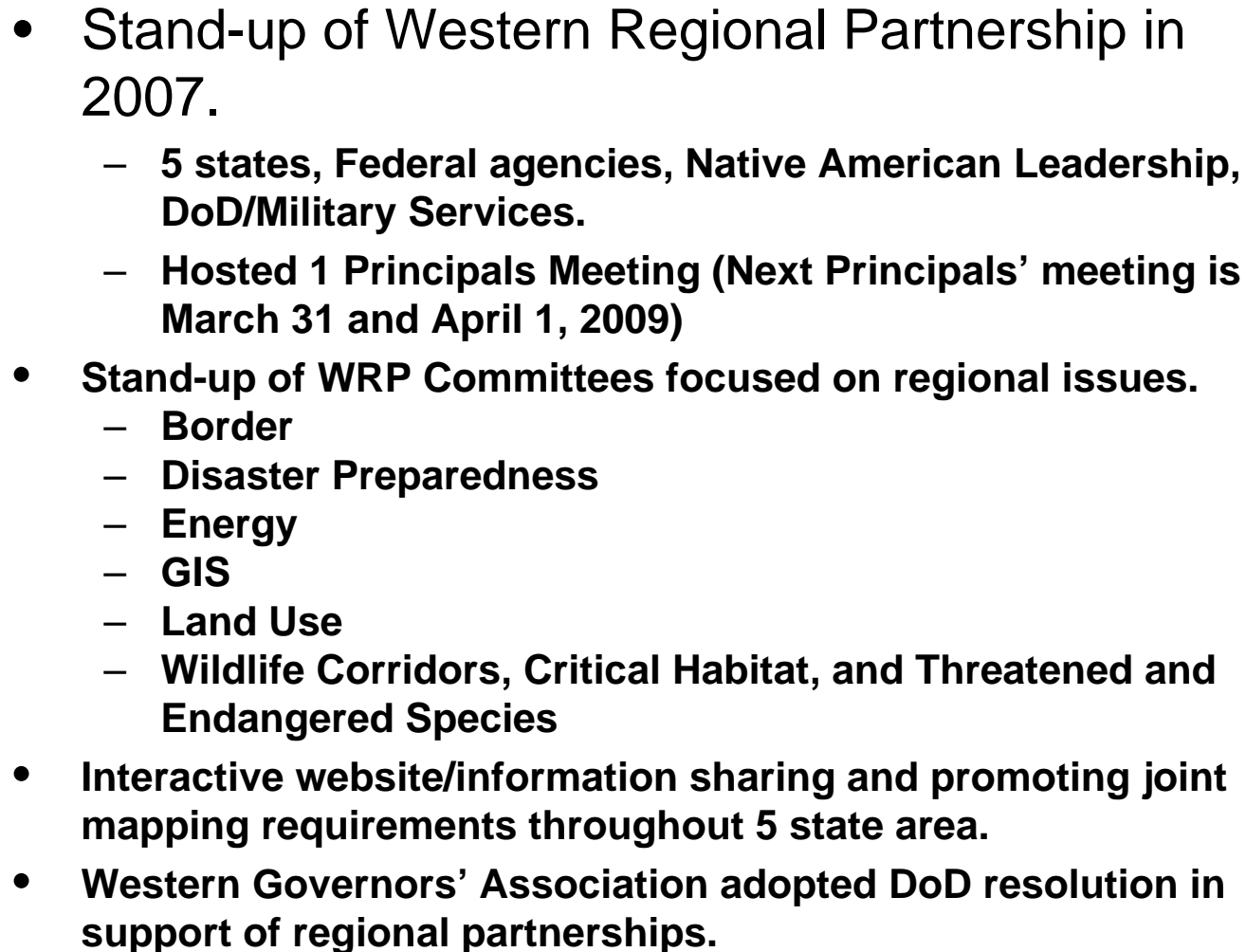


REPI Success So Far...

Leveraging 2x in partner funds

REPI project funding sources in FY05-08







A country worth defending...
... is a country worth preserving.

Major General “Mike” Lehnert
Commanding General, Marine Corps Installations West



THANK YOU

